## ABSTRACT OF THE DISCLOSURE

A culturing system and method particularly useful for producing cellular products such as viral pathogens of cells. It includes a mass transfer culture segment, stacked filter plates to adjust the medium composition, and a product removal and concentration segment. The mass transfer culture segment utilizes changed directional flow of the medium to maximize cell growth and production of product. The stacked filter plates allow addition of sterile fresh medium and removal of growth inhibitory substances.

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